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	Application No.	Applicant(s)		
Notice of Allowability	10/535,330	SADEGHI ET AL.		
	Examiner	Art Unit		
	Joseph D. Anthony	1714	·	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to the amendment filed	<u>3/1/07</u> .			
2. X The allowed claim(s) is/are 10-18 and 21 [renumbered as	<u>2-10 and 1]</u> .			
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No. Also the paper No. Also the paper No. Also the paper No. Compared to th	e been received. e been received in Application No becoments have been received in this is of this communication to file a reply MENT of this application. Initted. Note the attached EXAMINER' es reason(s) why the oath or declarate st be submitted. Is on's Patent Drawing Review (PTO- Is Amendment / Comment or in the Coll. Is Afficient attached in the drawing the header according to 37 CFR 1.121(c)	national stage applical complying with the red of S AMENDMENT or Notion is deficient. 948) attached office action of the lags in the front (not the lags in the front (not the lags).	quirements IOTICE OF	
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT Attachment(s) Notice of References Cited (PTO 992) Market M	FOR THE DEPOSIT OF BIOLOGICA	AL MATERIAL.	Note the	
 Notice of References Cited (PTO-892) D Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal P 6. ☒ Interview Summary 			
	Paper No./Mail Dat	e		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🛛 Examiner's Amendr	nent/Comment		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons for Allo	wance	
oi biological material	9.	9. Other		
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Travis M. Wohlers on 3/18/07 and 3/26/07.

The application has been amended as follows:

In claim 21, line 6, delete "a" and insert therefor -an isolated--.

Claim 19 has been canceled.

2. The following is an examiner's statement of reasons for allowance:

Independent claim 21 has been amended above to require that the antioxidant B is further defined as an isolated chlorophyll. Support for this examiner' amendment is found on page 4, lines 1-13 of the specification. This said amendment was deemed necessary in order to overcome an examiner's newly found reference to Rebeiz U.S. Patent Number 3,934,369. Rebeiz teaches in vitro net biosynthesis of chlorophyll and grana involving: irradiation of etiolated plant tissue; homogenization, in an environment including available oxygen, of the tissue in a buffer comprising biosynthetic cofactors

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including coenzyme A, glutathione, potassium, inorganic phosphate, methyl alcohol, magnesium, nicotinamide adenine dinucleotide and adenosine triphosphate; isolation from the homogenate of developing chloroplasts; irradiated incubation of the isolated chloroplasts in the presence of oxygen in another buffer of a constitution similar to that above-described and including .delta.-aminolevulinic acid. Synthesized products are isolated and quantified, see abstract. The process can also employ reduced nicotinamide adenine dinucleotide (i.e. NADH) and/or reduced nicotinamide adenine dinucleotide phosphate (i.e. NADPH) in lieu of the non-reduced forms of these compounds, see column 17, lines 41-60. Rebeiz stepwise process is clearly disclosed in Rebeiz's claims 1-2. Please note that Rebeiz's claim 2 teaches isolating chlorophyll and gana from the buffer subsequent to step (d). When said chlorophyll and gana are isolated from the buffer which contains the cofactor material nicotinamide adenine dinucleotide (i.e. NAD), the resulting isolated product does NOT contain NAD (or NADH or NADPH if such cofactors materials) where used in lieu of NAD. Said isolated chlorophyll is NOT processed to undergo Rebeiz's step (d). Rather, Rebeiz's steps (c)-(d) are related to isolating developing chloroplasts from the homogenate of step (b) and subsequently, in step (d), re-irradiating the developing chloroplasts in a buffer containing nicotinamide adenine dinucleotide (i.e. NAD) to produce additional nonisolated chlorophyll, which can subsequently be isolated, but when it is isolated it will NOT be in combination with NAD.

Claim 19 has been canceled because it is identical to claim 17 as filed in the amendment of 3/1/07.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner Information

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Joseph D. Anthony whose telephone number is (571) 272-1117. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on (571) 272-1119. The centralized FAX machine number is (571) 273-8300. All other papers received by FAX will be treated as Official communications and cannot be immediately handled by the Examiner.

Joseph D. Anthony Primary Patent Examiner Page 4

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